

HEAVY DUTY PLANK

COLOR /

Manufactured in light gray

Note: Special resins, colors and lengths available, contact factory at 888-CPI-PULL.

Heavy Duty Plank is pultruded as a single profile in which the top surface and legs are integral to the part. The heavy-duty profile was developed to replace deteriorating wood on low boy trailers in order to eliminate the traditional deck replacement maintenance cycle.

The Heavy Duty Plank measures 10.25" wide x 1.88" high and is available with or without antiskid.

FEATURES AND BENEFITS /

- Corrosion Resistant
- Non-Conductive
- Lightweight
- Maintenance Free
- Environmentally Safe
- High Strength
- Structurally Stable
- Electromagnetic Transparency
- Easy Standard Installation Methods
- Panels easily removed
- Elimination of Expensive Labor and Equipment

ANTISKID INFORMATION /

Industrial antiskid options are available for your specific need. Consult Creative at 888-CPI-PULL (274-7855) for antiskid and wearing surface options.



APPLICATIONS

- ADA COMPLIANT RAMP DECKING
- DECKING FOR WALKWAYS AND PLATFORMS
- MARINA DOCK DECKING
- COOLING TOWER DECKING
- PEDESTRIAN BRIDGE DECKS
- TRAILER DECKING

HEAVY DUTY PLANK CP064

Simple Supported Beam-Single Span



Heavy Duty Plank CP064
10.25" wide x 1.88" high
1500/1525/1625 Series



Imperial

$E_b = 3.50$ Msi $G_b = 0.43$ Msi Characteristic longitudinal compressive strength (F_{L^y}) = 45,000 psi
 $I_x = 2.86$ in⁴/ft $S_x = 2.43$ in³/ft Characteristic in-plane shear strength (F_{LT^y}) = 4,500 psi
 $A_w = 3.30$ in²/ft Weight = 5.47 psf Solid Top Decking

Span (in)	Allowable Concentrated Load Tables (lb/ft width of panel)						Span (in)	Allowable Uniform Load Tables (lb/ft ²)					
	L/D Ratios			Deflection (in)		Max. Service Load		L/D Ratios			Deflection (in)		Max. Service Load
	180	240	360	0.25	0.375			180	240	360	0.25	0.375	
12	****	8718	5812	****	****	9900	12	****	****	****	****	****	9900
18	6516	4887	3258	****	****	9720	18	****	5440	3627	****	****	6600
24	4034	3026	2017	****	****	7290	24	3313	2485	1657	****	****	4950
30	2708	2031	1354	4062	****	5832	30	1764	1323	882	2646	****	3960
36	1932	1449	966	2415	3622	4860	36	1043	782	522	1304	1956	3240
42	1443	1082	722	1546	2319	4166	42	666	499	333	713	1070	2380
48	1117	838	559	1047	1571	3645	48	450	338	225	422	633	1823
54	889	667	445	741	1112	3240	54	318	239	159	265	398	1440
60	724	543	362	543	815	2916	60	233	175	116	175	262	1166
66	601	451	300	410	615	2651	66	176	132	88	120	179	964
72	507	380	253	317	475	2430	72	136	102	68	85	127	810
78	433	324	216	250	374	2243	78	107	80	53	62	92	690
84	374	280	187	200	300	2083	84	86	64	43	46	69	595
90	326	245	163	163	245	1944	90	70	52	35	35	52	518
96	287	215	143	135	202	1823	96	58	43	29	27	40	456

Metric

$E_b = 24.1$ Gpa $G_b = 2.9$ Gpa Characteristic longitudinal compressive strength (F_{L^y}) = 310 Mpa
 $I_x = 3.9E-6$ m⁴/m $S_x = 1.3E-4$ m³/m Characteristic in-plane shear strength (F_{LT^y}) = 31 Mpa
 $A_w = 7.0E-3$ m²/m Weight = 26.7 kg/m² Solid Top Decking

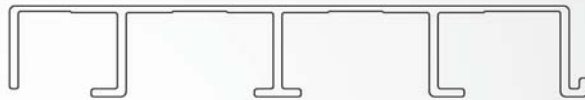
Span (m)	Allowable Concentrated Load Tables (kN/m width of panel)						Span (m)	Allowable Uniform Load Tables (kN/m ²)					
	L/D Ratios			Deflection (mm)		Max. Service Load		L/D Ratios			Deflection (mm)		Max. Service Load
	180	240	360	6	10			180	240	360	6	10	
0.25	****	****	106.7	****	****	144.5	0.25	****	****	****	****	****	577.9
0.50	82.3	61.7	41.2	****	****	129.7	0.50	273.4	205.0	136.7	****	****	289.0
0.75	40.7	30.5	20.3	58.6	****	86.5	0.75	88.4	66.3	44.2	127.3	****	192.6
1.00	23.8	17.9	11.9	25.7	42.9	64.9	1.00	38.5	28.9	19.3	41.6	69.3	129.7
1.25	15.5	11.7	7.8	13.4	22.4	51.9	1.25	20.0	15.0	10.0	17.3	28.8	83.0
1.50	10.9	8.2	5.5	7.8	13.1	43.2	1.50	11.7	8.8	5.8	8.4	14.0	57.6
1.75	8.1	6.0	4.0	5.0	8.3	37.1	1.75	7.4	5.5	3.7	4.6	7.6	42.4
2.00	6.2	4.6	3.1	3.3	5.6	32.4	2.00	5.0	3.7	2.5	2.7	4.5	32.4
2.25	4.9	3.7	2.5	2.4	3.9	28.8	2.25	3.5	2.6	1.7	1.7	2.8	25.6
2.50	4.0	3.0	2.0	1.7	2.9	25.9	2.50	2.6	1.9	1.3	1.1	1.8	20.8
2.75	3.3	2.5	1.6	1.3	2.2	23.6	2.75	1.9	1.4	1.0	0.8	1.3	17.2
3.00	2.8	2.1	1.4	1.0	1.7	21.6	3.00	1.5	1.1	0.7	0.5	0.9	14.4

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

Simple Supported Beam-Continuous Span



Tuf-dek™ GR303 Decking
 12" wide x 2.125" high
 1500/1525/1625 Series



Imperial

$E_b = 2.5 \text{ Msi}$ $G_b = 0.3 \text{ Msi}$ Characteristic longitudinal compressive strength (F_L^c) = 25,000 psi
 $I_x = 2.34 \text{ in}^4/\text{ft}$ $S_x = 1.74 \text{ in}^3/\text{ft}$ Characteristic in-plane shear strength (F_{LT}^y) = 5,000 psi
 $A_w = 1.7 \text{ in}^2/\text{ft}$ Weight = 3.26 psf Solid Top Decking

Allowable Concentrated Load Tables (lb/ft width of panel)							Allowable Uniform Load Tables (lb/ft ²)						
L/D Ratios			Deflection (in)				L/D Ratios			Deflection (in)			
Span (in)	180	240	360	0.25	0.375	Max. Service Load	Span (in)	180	240	360	0.25	0.375	Max. Service Load
12	****	****	3232	****	****	4772	12	****	****	****	****	****	4722
18	4206	3154	2103	****	****	4760	18	****	****	2952	****	****	3148
24	2824	2118	1412	****	****	3570	24	****	2254	1502	****	****	2361
30	1986	1489	993	****	****	2856	30	1701	1276	850	****	****	1889
36	1457	1093	728	1821	****	2380	36	1044	783	522	1305	****	1574
42	1108	831	554	1187	1781	2040	42	683	512	341	731	1097	1184
48	868	651	434	814	1221	1785	48	469	352	234	440	659	906
54	697	523	349	581	872	1587	54	335	251	168	279	419	716
60	572	429	286	429	643	1428	60	247	186	124	186	278	580
66	476	357	238	325	487	1298	66	188	141	94	128	192	479
72	403	302	202	252	378	1190	72	146	109	73	91	136	403
78	345	259	173	199	299	1098	78	115	86	58	66	100	343
84	299	224	149	160	240	1020	84	93	69	46	50	74	296
90	261	196	131	131	196	952	90	76	57	38	38	57	258
96	230	173	115	108	162	892	96	62	47	31	29	44	227

Metric

$E_b = 17.2 \text{ Gpa}$ $G_b = 2.1 \text{ Gpa}$ Characteristic longitudinal compressive strength (F_L^c) = 172 Mpa
 $I_x = 3.20\text{E-}6 \text{ m}^4/\text{m}$ $S_x = 9.36\text{E-}5 \text{ m}^3/\text{m}$ Characteristic in-plane shear strength (F_{LT}^y) = 34 Mpa
 $A_w = 3.60\text{E-}3 \text{ m}^2/\text{m}$ Weight = 15.9 kg/m² Solid Top Decking

Allowable Concentrated Load Tables (kN/m width of panel)							Allowable Uniform Load Tables (kN/m ²)						
L/D Ratios			Deflection (mm)				L/D Ratios			Deflection (mm)			
Span (m)	180	240	360	6.35	9.525	Max. Service Load	Span (m)	180	240	360	6.35	9.525	Max. Service Load
0.25	****	****	54.9	****	****	69.6	0.25	****	****	****	****	****	275.7
0.50	54.6	41.0	27.3	****	****	63.5	0.50	****	****	115.5	****	****	137.8
0.75	29.7	22.3	14.9	****	****	42.3	0.75	84.9	63.7	42.4	****	****	91.9
1.00	18.2	13.6	9.1	20.8	31.1	31.8	1.00	39.1	29.3	19.6	44.7	****	64.5
1.25	12.1	9.1	6.1	11.1	16.6	25.4	1.25	20.9	15.7	10.5	19.1	28.7	41.3
1.50	8.6	6.4	4.3	6.5	9.8	21.2	1.50	12.4	9.3	6.2	9.4	14.2	28.7
1.75	6.4	4.8	3.2	4.2	6.3	18.1	1.75	7.9	5.9	4.0	5.2	7.8	21.1
2.00	4.9	3.7	2.5	2.8	4.2	15.9	2.00	5.4	4.0	2.7	3.1	4.6	16.1
2.25	3.9	3.0	2.0	2.0	3.0	14.1	2.25	3.8	2.8	1.9	1.9	2.9	12.7
2.50	3.2	2.4	1.6	1.5	2.2	12.7	2.50	2.8	2.1	1.4	1.3	1.9	10.3
2.75	2.7	2.0	1.3	1.1	1.7	11.5	2.75	2.1	1.6	1.0	0.9	1.3	8.5
3.00	2.2	1.7	1.1	0.9	1.3	10.6	3.00	1.6	1.2	0.8	0.6	0.9	7.2

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.